

Nonie J. Finlayson

Postdoctoral Researcher (Cognitive Neuroscience)

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Education

Degree	Institution	Year
PhD	The University of Queensland	2014
BPsySc (1st Class Hons)	The University of Queensland	2008

Academic Positions

- 2018-Present **Postdoctoral Researcher**, School of Psychology, The University of Queensland, Australia, with Dr Stefanie Becker
- 2016-2018 **Postdoctoral Researcher**, Department of Experimental Psychology, University College London, UK, with Dr Sam Schwarzkopf
- 2013-2016 **Postdoctoral Researcher**, Department of Psychology, The Ohio State University, USA, with Dr Julie Golomb, Vision & Cognitive Neuroscience Lab
- 2010-2014 **PhD Candidate** (Cognitive Psychology), School of Psychology, The University of Queensland, Australia, with Drs Philip Grove & Roger Remington
- 2008 **QBI Honours Student**, Queensland Brain Institute, The University of Queensland, Australia, with Dr Jason Mattingley

Publications

Journal publications

- Finlayson, N.J.**, Papageorgiou, A., & Schwarzkopf, D.S. (2017). A new method for mapping perceptual biases across visual space. *Journal of Vision*, 17(9):5, 1-9.
- Finlayson, N.J.** & Golomb, J.D. (2017). 2D location biases depth judgments but not vice versa. *Visual Cognition*, 1-12.
- Finlayson, N.J.**, Zhang, X., & Golomb, J.D. (2017). Differential patterns of 2D location versus depth decoding along the visual hierarchy. *NeuroImage*, 147, 507-516.
- Finlayson, N.J.** & Golomb, J.D. (2016). Feature-location binding in 3D: Feature judgments are biased by 2D location but not position-in-depth. *Vision Research*, 127, 49-56.
- Finlayson, N.J.** & Grove, P.M. (2015). Visual search is influenced by 3D spatial layout. *Attention, Perception, & Psychophysics*, 77(7), 2322-2330.

- Grove, P.M., **Finlayson, N.J.**, & Ono, H. (2014). The effect of stimulus size on stereoscopic fusion limits and response criteria. *Perception*, 43(2-3), 155-177.
- Finlayson, N.J.**, Remington, R.W., Retell, J.D., & Grove, P.M. (2013). Segmentation by depth does not always facilitate visual search. *Journal of Vision*, 13(8):11.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2012). The role of presentation method and depth singletons in visual search for objects moving in depth. *Journal of Vision*, 12(8):13, 1-9.

Under Review

- Finlayson, N.J.**, Manser-Smith, K., Balraj, A., de Haas, B., & Schwarzkopf, D.S. (Under Review). The optimal experimental design for Multiple Alternatives Perceptual Search.
- Finlayson, N.J.**, Remington, R.W., Harrold, A., & Grove, P.M. (Under Review). 3D visual search: Attention is guided by surfaces and depth from binocular vision.

Conference Presentations

- Finlayson, N.J.**, Neacsu, V., & Schwarzkopf, D.S. (2017). Spatial heterogeneity within perception of bistable images. *ECVP*, Berlin, Germany: 27-31st Aug, poster.
- Stoll, S., **Finlayson, N.J.**, & Schwarzkopf, D.S. (2017). The topographic representation of global object perception in human visual cortex. *ECVP*, Berlin, Germany: 27-31st Aug, poster.
- Finlayson, N.J.**, de Hass, B., Ei, S., & Schwarzkopf, D.S. (2017). Heritability of visual perception and cortical architecture. *VSS*, St Pete Beach, Florida: 19-24th May, poster.
- Stoll, S., **Finlayson, N.J.**, & Schwarzkopf, D.S. (2017). The topographic representation of global object perception in human visual cortex. *VSS*, St Pete Beach, Florida: 19-24th May, talk.
- Golomb, J.D., Berman, D.E., & **Finlayson, N.J.** (2017). “Depth-otopic” mapping of human visual cortex. *VSS*, St Pete Beach, Florida: 19-24th May, talk.
- Finlayson, N.J.**, Neacsu, V., & Schwarzkopf, D.S. (2016). Spatial heterogeneity in the perception of bistable images. *AVA Christmas Meeting*, London, UK: 19th Dec, poster.
- Moutsiana, C., de Hass, B., Papageorgiou, A., **Finlayson, N.J.**, & Schwarzkopf, D.S. (2016). Population coding in visual cortex underlies visual size perception. *Society for Neuroscience Meeting*. San Diego, CA: 12-16 Nov, poster.
- Finlayson, N.J.** (2016). How important is the top-down contribution to vision? *Cambridge Vision Workshop*, Cambridge, UK: 20-21st Oct, talk.
- Finlayson, N.J.** & Golomb, J.D. (2016). Are 2D and 3D location equally prioritized in object processing? *VSS*, St Pete Beach, Florida: 13-18th May, poster.
- Berman, D., **Finlayson, N.J.**, & Golomb, J.D. (2016). Depth preferences of category-selective regions in human visual cortex. *VSS*, St Pete Beach, Florida: 13-18th May, poster.
- Barboza, M., **Finlayson, N.J.**, Zhang, X., & Golomb, J.D. (2016). Feature-location binding, the “spatial congruency bias”, and object-based attention. *VSS*, St Pete Beach, Florida: 13-18th May, poster.
- Finlayson, N.J.** & Golomb, J.D. (2016). Feature-location binding in 3D: Feature judgments are biased by 2D location but not position-in-depth. *AVA/SVG*, Peebles, Scotland: 8-10th Apr, poster.

- Finlayson, N.J.** & Golomb, J.D. (2015). Feature-location binding in 3D: Does the “spatial congruency bias” extend to depth position? *Psychonomics*, Chicago, IL: 19-22nd Nov, poster.
- Berman, D., **Finlayson, N.J.**, & Golomb, J.D. (2015). Topographic maps of depth in human visual cortex. *Society for Neuroscience Meeting*. Chicago, IL: 17-21st Oct, poster.
- Finlayson, N.J.** & Golomb, J.D. (2015). The representation and perception of 3D space: Interactions between 2D location and depth. *Object and Perception Annual Meeting*, Chicago, IL: 19th Nov, talk.
- Finlayson, N.J.** & Golomb, J.D. (2015). Depth, 2D space, and the “spatial congruency bias”. *Center for Cognitive & Behavioral Sciences Workshop*, Deer Lodge, OH: 18-19 Sept, poster.
- Finlayson, N.J.**, Zhang, X., & Golomb, J.D. (2015). Human visual cortex gradually transitions from 2D to 3D spatial representations. *Vision Sciences Society Meeting*, St Pete Beach, Florida: 15-20th May, talk.
- Berman, D., **Finlayson, N.J.**, & Golomb, J.D. (2015). Topographic maps of depth in human visual cortex. *Vision Sciences Society Meeting*, St Pete Beach, Florida: 15-20th May, poster.
- Finlayson, N.J.**, Kupitz, C.N., & Golomb, J.D. (2014). Decoding depth: Representations of 3D versus 2D spatial information in human visual cortex. *Society for Neuroscience Meeting*. Washington, DC: 15-19 Nov, poster.
- Finlayson, N.J.** & Golomb, J.D. (2014). Representations of 3D versus 2D spatial information in human visual cortex. *Center for Cognitive & Behavioral Sciences Workshop*, Mohican Lodge, OH: 19-20 Sept, talk.
- Finlayson, N.J.** & Grove, P.M. (2014). Visual search is influenced by 3D spatial layout. *Vision Sciences Society Meeting*. St Pete Beach, Florida: 16-21 May, poster.
- Finlayson, N.J.**, Remington, R.W., Retell, J.D., & Grove, P.M. (2013). The effects of grouping search elements by depth on target selection. *Vision Sciences Society Meeting*. Naples, Florida: 10-15 May, poster.
- Finlayson, N.J.** & Grove, P.M. (2013). Exploring the parameters of visual search in 3D space. *Proceedings of the 40th Australasian Experimental Psychology Conference*. Adelaide, Australia: 4-7 April, talk.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2012). The role of presentation and depth singletons in the prioritization of approaching but not receding motion in depth. *Vision Sciences Society Meeting*. Naples, Florida: 10-16 May, poster.
- Finlayson, N.J.**, Remington, R.W., Retell, J.D., & Grove, P.M. (2012). Visual search in 3D: Conjunction search efficiency is modulated by disparity information. *Proceedings of the 39th Australasian Experimental Psychology Conference*. Sydney, Australia: 12-15 April, talk.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2011). Visual search in depth: Longer shifts or larger space? *UQ Centre for Perception and Cognitive Neuroscience Workshop*. Brisbane, Australia: 1-2 Dec, talk.
- Finlayson, N.J.**, Remington, R.W., & Grove, P.M. (2011). Presenting motion-in-depth: How depth singletons and depth cues influence attentional capture. *Proceedings of the 38th Australasian Experimental Psychology Conference*. Auckland, New Zealand: 28-30 April, poster.
- Grove, P.M., **Finlayson, N.J.**, Ono, H. (2011). The effects of stimulus size on stereoscopic fusion limits and response criteria. *I-Perception*. 2(4), 401, talk.

Finlayson, N.J. (2010). Taking a closer look at capture by motion in depth: Attention to motion or depth? *The inaugural Centre for Perception and Cognitive Neuroscience Workshop*. Brisbane, Australia: 2-3 Dec, talk.

Theses

Finlayson, N.J. (2014). Visual search in 3D space: Deploying attention in depth. *PhD dissertation*. The University of Queensland, Brisbane, Australia.

Finlayson, N.J. (2008). ‘Not your average cup of tea’: The influence of action affordances on visual search. *Unpublished honours thesis*, The University of Queensland, Brisbane, Australia.

Invited Talks & Lectures

2017	Sensory Neuroscience Lecture, UCL Neuroscience Masters, “ <i>Depth Perception and Attention</i> ”
2017	Bayslab talk, University of Cambridge
2016	Experimental Psychology Seminar, University College London
2016	Bedford Way Vision Workshop, University College London
2016	B-REAL lab talk, School of Psychology, University of Queensland
2015	UMN Perception Talk, Department of Psychology, UMN
2014	Wolfe Lab Seminar, Brigham and Women’s Hospital, Harvard Medical School
2013	Cognitive Proseminar Series, The Ohio State University
2013	Bex Lab, Schepens Eye Research Institute, Boston
2012	Visual Cognition Lab, Northwestern University

Awards and Scholarships

2010-2013	Australian Postgraduate Award, Australian Government and The University of Queensland
2011-2013	APA Graduate Travel Awards, University of Queensland
2013	School of Psychology Award for Excellence in Tutoring
2013	Student Travel Grant, Experimental Psychology Conference (EPC), Adelaide
2011	Student Travel Grant, Experimental Psychology Conference (EPC), Auckland
2004-2008	Dean’s Commendation for High Achievement, The University of Queensland

Professional Positions

2017	International Development Quantitative Analysis Intern , British Red Cross.
2013	Research Administration Officer , Research and Innovation, The University of Queensland, Australia, ARC <i>Discovery Projects</i> and ARC <i>DECRA</i> grant rounds
2010-2013	Tutor (Research Methods III, Neuroscience for Psychologists, Measurement in Psychology), School of Psychology, The University of Queensland, Australia

- 2010 **Research Assistant** (Human Factors and Health Psychology), School of Psychology, The University of Queensland, Australia, with Professor Mark Horswill
- 2009 **Research Assistant** (Health Psychology), Centre for Clinical Research, The University of Queensland, Australia, with Dr Ingrid Rowlands
- 2007-2008 **Research Assistant** (Human Learning and Memory), School of Psychology, The University of Queensland, Australia, with Professor Mike Humphreys, ARC Key Centre for Human Factors & Applied Cognitive Psychology
- 2006-2007 **Tutor** (Introductory Psychology, Music Theory), Emmanuel College, Sir William MacGregor Drive, St Lucia, QLD, Australia

Ad-hoc Reviewing & Other Activities

Journals: *NeuroImage*; *Psychonomic Bulletin & Review*; *Frontiers in Psychology*; *Journal of Physiology*; *Journal of Vision*; *Attention, Perception, & Psychophysics*; *Human Brain Mapping*; *Psychological Research*; *Cognitive Research: Principles and Implications*; *Eye & Vision*; *iPerception*

- 2017 BUCNI MRI operator trainer
- 2017 Expert for *Secrets of the Brain* documentary, Season 2, Episode 10: Twins (Aired 3/11/17)
- 2016 Organised two-day Cambridge Vision Workshop (20-21/10/16)
“*What have vision scientists learned in the past five years?*”
- 2015-2016 Matlab methods course
- 2012-2013 UQ Skeptics Student Organisation, President (2013) and Secretary (2012)

Memberships

Vision Sciences Society; Society for Neuroscience; The Psychonomics Society; Applied Vision Association